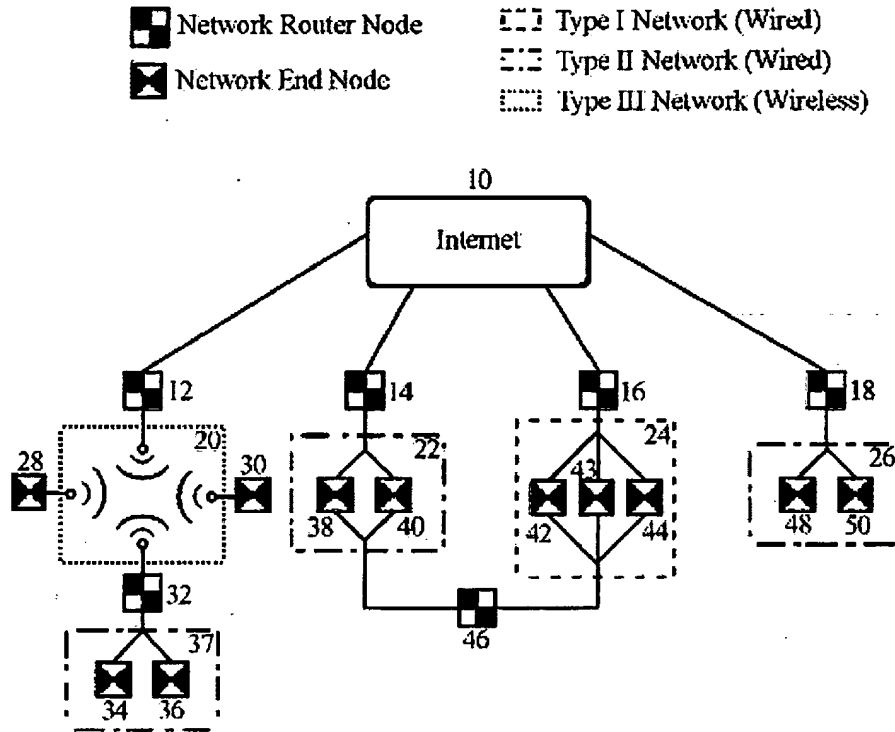


Fig 1

PINC Layer	Functionality
Application	- This is the actual application, and provides the services that are directly available to system users. e.g., true distributed control network application.
Smart Network	- This is the interface between complex network applications and the underlying physical network. It provides network services for applications.
Physical	- Underlying physical network.

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Fig 2



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Fig 3

PINC Layer	PINC Sublayer	Functionality
Application	Application	- Complex network applications.
Smart Network	Encryption	- Data encryption: public- and secret-key algorithms. - Authentication.
	Packet Transport	- Packet transport services, connection-oriented and connectionless.
	Network Routing	- Computing optimal network paths. - Network load balancing. - Network Quality of Service (QoS)
Physical	Physical Transmission	- Division of frames into bit stream and vice versa. - Managing damaged, duplicate and lost frames
	Physical Medium	- Bit Timing, voltages. - Physical Network Access

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